

WHAT IS CLAIMED IS:

1. (canceled)
2. (canceled)
3. (canceled)
4. (previously presented) The method according to claim 15, wherein the feeding velocity of the second piece of wood is continuously recalculated.
5. (previously presented) The method according to claim 4, wherein the step of scanning in step b) is done continuously and wherein the control unit recalculates the feeding velocity based on the continuously scanned positions of the pieces of wood.
6. (previously presented) The method according to claim 15, wherein a feeding velocity of the second piece of wood is controlled so as to minimize a distance between the first and second pieces of wood.
7. (previously presented) The method according to claim 15, wherein, in the step a), a length of the pieces of wood is measured.
8. (previously presented) The method according to claim 7, wherein, in the step a), defects of the pieces of wood are measured.
9. (previously presented) The method according to claim 8, further comprising the step of saving the measured results.
10. (previously presented) The method according to claim 9, wherein the measured results that are saved are used for recalculating and variably adjusting the feeding velocity according to step d).
11. (previously presented) The method according to claim 15, wherein in the step b) the second pieces of wood are supplied without interruption to the sawing station.
12. (previously presented) The method according to claim 15, further comprising the step of decoupling a drive for transporting the pieces of wood to the sawing station from a drive of the sawing station.
13. (canceled)
14. (canceled)
15. (previously presented) A method for sawing pieces of wood in a sawing station, the method comprising the steps of:

- a) measuring the pieces of wood in a measuring station;
- b) sequentially and continuously transporting at a variable feeding velocity on a transport device the pieces of wood from the measuring station to a sawing station and scanning a position of each of the pieces of wood during transport on the transport device from the measuring station to the sawing station and sending input signals of the scanned position to a control unit;
- c) cutting the pieces of wood in the sawing station in a transverse direction that is transverse to a transport direction of the pieces of wood in the sawing station while the pieces of wood are stopped briefly to allow cutting in the transverse direction into at least two sections based on measured results taken in the step a) and monitoring a saw position of a saw of the sawing station and sending input signals of the saw position to the control unit;
- d) recalculating and variably adjusting, based on the input signals of step b) and step c), the feeding velocity of the pieces of wood during transport according to step b) such that sequentially transported pieces of wood have a minimal spacing relative to one another and a second piece of wood that trails immediately a first piece of wood being cut in the sawing station is already transported into the sawing station while the first piece of wood is still being cut.

16. (new) A method for sawing pieces of wood in a sawing station, the method comprising the steps of:

- a) measuring the pieces of wood in a measuring station;
- b) sequentially and continuously transporting at a variable feeding velocity on a first transport device the pieces of wood from the measuring station to a sawing station provided with a second transport device and scanning a position of each of the pieces of wood during transport on the first transport device from the measuring station to the sawing station and sending input signals of the scanned position to a control unit;
- c) moving the pieces of wood on the second transport device through the sawing station and cutting the pieces of wood in the sawing station in a transverse direction that is transverse to a transport direction of the pieces of wood in the sawing station while the pieces of wood are stopped briefly on the second transport device to allow cutting in

the transverse direction into at least two sections based on measured results taken in the step a) and monitoring a saw position of a saw of the sawing station and sending input signals of the saw position to the control unit;

d) inputting continuously a speed of the first and second transport devices into the control unit, respectively;

e) continuously recalculating and variably adjusting, based on the speed of the first and second transport devices of step d) and the input signals of step b) and step c), the feeding velocity of the pieces of wood on the first transport device such that sequentially transported pieces of wood have a minimal spacing relative to one another and a second piece of wood that trails immediately a first piece of wood being cut in the sawing station is already transported to the second transport device of the sawing station while the first piece of wood is still being cut.